



MAGNETIC RESONANCE IMAGING DEVICE

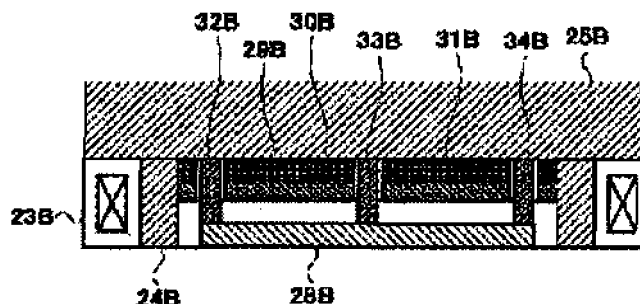
Patent number: JP2002153439
Publication date: 2002-05-28
Inventor: TAKESHIMA HIROTAKE; WADAYAMA YOSHIHIDE
Applicant: HITACHI MEDICAL CORP
Classification:
- international: **G01R33/383**; G01R33/565; **G01R33/38**; G01R33/54;
(IPC1-7): A61B5/055; G01R33/20; G01R33/387;
H01F6/00
- european: G01R33/383
Application number: JP20000352019 20001120
Priority number(s): JP20000352019 20001120

Also published as:

 US6498488 (B2)
 US2002060569 (A1)

[Report a data error here](#)**Abstract of JP2002153439**

PROBLEM TO BE SOLVED: To suppress the influence of an eddy current and a residual magnetic field generated by a gradient magnetic field coil and to improve the uniformity of a uniform magnetic field area. **SOLUTION:** In this magnetic resonance imaging device, planar eddy current suppressing materials 29A and 29B for shielding the influence of a gradient magnetic field generated by the gradient magnetic field coils 28A and 28B are provided between the gradient magnetic field coils 28A and 28B and magnetic plates 25A and 25B and uniformity control materials 30A and 30B in a cross-sectional shape for improving the uniformity of a magnetostatic field in a magnetostatic field area 21 are provided between the eddy current suppressing materials 29A and 29B and the magnetic plates 25A and 25B. Since the eddy current suppressing materials 29A and 29B are constituted of planar materials, they are just cut off to match with the shapes of the gradient magnetic field coils 28A and 28B and thus easily manufactured. Also, since the eddy current suppressing materials 29A and 29B are provided, even in the case of providing the uniformity control materials 30A and 30B, the influence by the eddy current and the residual magnetic field by the gradient magnetic field coils 28A and 28B does not affect the uniformity control materials 30A and 30B.



Data supplied from the **esp@cenet** database - Worldwide